

Appl. No. 10/532,027

Reply to Office Action of April 19, 2007

Amendments to the Claims:

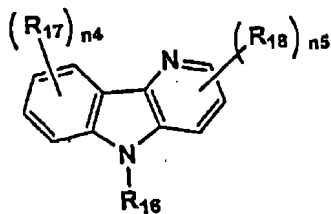
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

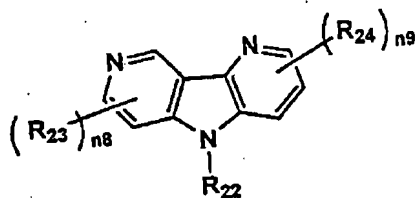
Claims 1-3 (Canceled)

4. (Currently amended) A ~~[[The]]~~ pyrrole derivative for ~~[[the]]~~ an organic electroluminescent element represented by one of Formulae (7) to (11) ~~[[(10)]]~~:

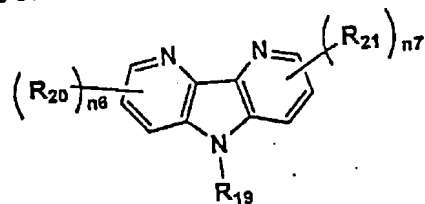
Formula (7)



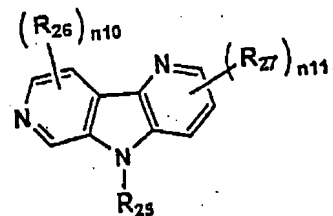
Formula (9)



Formula (8)



Formula (10)



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wherein:

R_{16} , R_{19} , R_{22} and R_{25} each represent an alkyl group which may have a substituent, a cycloalkyl group which may have a substituent, an aryl group which may have a substituent or a heterocyclic group which may have a substituent;

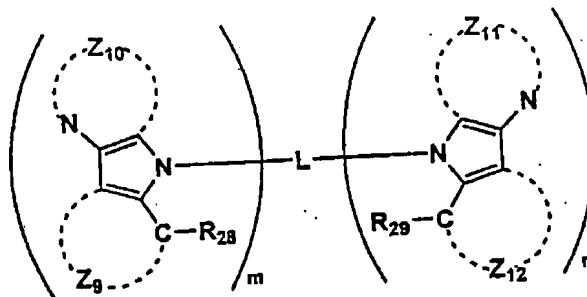
R_{17} , R_{18} , R_{20} , R_{21} , R_{23} , R_{24} , R_{26} , and R_{27} each represent a substituent;

n_4 represents an integer of 0 to 4; and

n_5 through n_{11} each represent an integer of 0 to 3;

and

Formula (11)



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wherein:

R₂₈, and R₂₉ each represent a hydrogen atom or a substituent;

Z₉ and Z₁₂ each represent a group of atoms necessary to form a 5-
to 7-member fused ring;

Z₁₀ and Z₁₁ each represent a group of atoms necessary to form a
nitrogen-containing 5-to 7-membered heterocycle;

L represents a linking group of divalent through tetravalent; and
m and n each represent an integer of 1 or 2.

Claims 5-6 (Canceled)

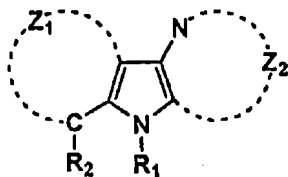
7. (Currently amended) An ~~[[The]]~~ organic electroluminescent
element comprising a pair of electrodes having therebetween one or
more constituting layers, wherein:

at least one of the constituting layers is a light emitting
layer;

one of the constituting layers contains the pyrrole derivative
for the organic electroluminescent element ~~of claim 1~~ represented by
the following Formula (1), and having a molecular weight of not less
than 450:

Formula (1)

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wherein:

R₁ represents an alkyl group which may have a substituent, a cycloalkyl group which may have a substituent, an aryl group which may have a substituent or a heterocyclic group which may have a substituent;

R₂ represents a hydrogen atom or a substituent;

Z₁ represents a group of atoms necessary to form a 5-to 7-membered fused ring combined with two carbon atoms; and

Z₂ represents a group of atoms necessary to form a nitrogen-containing 5-to 7-membered heterocycle combined with a carbon atom and a nitrogen atom.

8. (Original) The organic electroluminescent element of claim 7, wherein the light emitting layer contains the pyrrole derivative for the organic electroluminescent element.

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9. (Previously presented) The organic electroluminescent element of claim 7, wherein the constituting layers contain a hole blocking layer containing the pyrrole derivative for the organic electroluminescent element.

10. (Previously presented) The organic electroluminescent element of claim 7, wherein the organic electroluminescent element emits blue light.

11. (Previously presented) The organic electroluminescence element of claim 7, wherein the organic electroluminescent element emits white light.

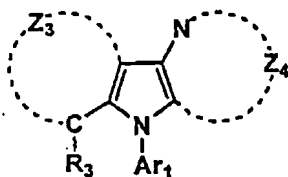
12. (Previously presented) An illuminator comprising the organic electroluminescent element of claim 7.

13. (Previously presented) A display device comprising the organic electroluminescent element of claim 7.

14. (New) The organic electroluminescent element of claim 7, wherein the pyrrole derivative is represented by Formula (2)

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Formula (2)



wherein:

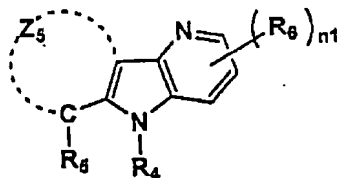
Ar₁ represents an aryl group which may have a substituent, or a heterocyclic group which may have a substituent;

R₃ represents a hydrogen atom or a substituent; and

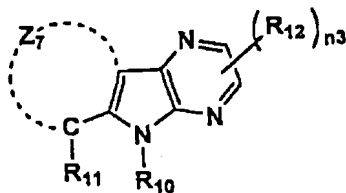
Z₃ and Z₄ each represent a group of atoms necessary to form a 5- to 7-member fused ring.

15. (New) The organic electroluminescent element of claim 7, wherein the pyrrole derivative is represented by one of Formulae (3) to (6):

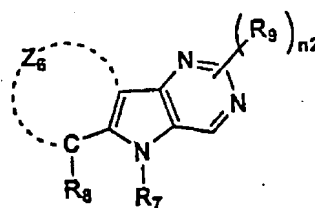
Formula (3)



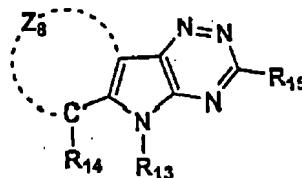
Formula (5)



Formula (4)



Formula (6)



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wherein:

R₄, R₇, R₁₀ and R₁₃ each represent an alkyl group which may have a substituent, a cycloalkyl group which may have a substituent, an aryl group which may have a substituent or a heterocyclic group which may have a substituent;

R₅, R₆, R₈, R₉, R₁₁, R₁₂, R₁₄, and R₁₅ each represent a substituent;

Z₅ through Z₈ each represent a group of atoms necessary to form a 5-to-7-membered fused ring;

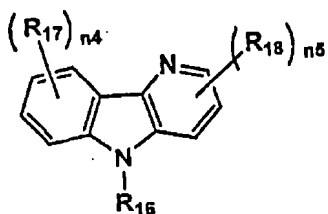
n₁ represents an integer of 0 to 3; and

n₂ and n₃ each represent an integer of 0 to 2.

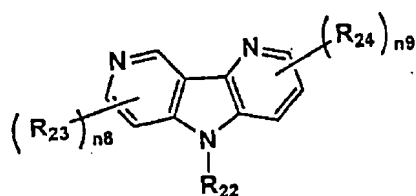
16. (New) The organic electroluminescent element of claim 7, wherein the pyrrole derivative is represented by one of Formulae (7) to (10):

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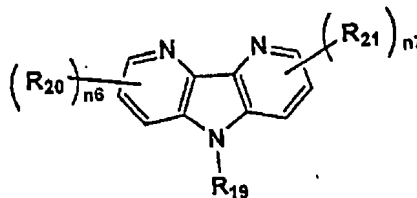
Formula (7)



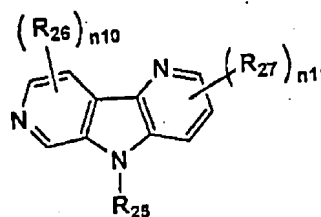
Formula (9)



Formula (8)



Formula (10)



wherein:

R₁₆, R₁₉, R₂₂ and R₂₅ each represent an alkyl group which may have a substituent, a cycloalkyl group which may have a substituent, an aryl group which may have a substituent or a heterocyclic group which may have a substituent;

R₁₇, R₁₈, R₂₀, R₂₁, R₂₃, R₂₄, R₂₆, and R₂₇, each represent a substituent;

n₄ represents an integer of 0 to 4; and

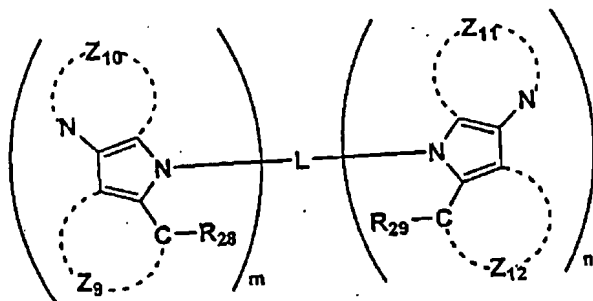
n₅ through n₁₁ each represent an integer of 0 to 3.

17. (New) The organic electroluminescent element of claim 7, wherein the pyrrole derivative is represented by Formula (11)

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Formula (11)



wherein:

R_{28} , and R_{29} each represent a hydrogen atom or a substituent;

Z_9 and Z_{12} each represent a group of atoms necessary to form a 5-to 7-membered fused ring;

Z_{10} and Z_{11} each represent a group of atoms necessary to form a nitrogen-containing 5-to 7-membered heterocycle;

L represents a linking group of divalent through tetravalent;

and

m and n each represent an integer of 1 or 2.

18. (New) The organic electroluminescent element of claim 7 wherein a wavelength giving a fluorescence maximum of the pyrrole derivative represented by Formula (1) or Formula (2) is not more than 500 nm.

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19. (New) The organic electroluminescent element of claim 14 wherein a wavelength giving a fluorescence maximum of the pyrrole derivative represented by Formula (1) or Formula (2) is not more than 500 nm.
20. (New) The organic electroluminescent element of claim 15 wherein a wavelength giving a fluorescence maximum of the pyrrole derivative represented by Formula (1) or Formula (2) is not more than 500 nm.
21. (New) The organic electroluminescent element of claim 16 wherein a wavelength giving a fluorescence maximum of the pyrrole derivative represented by Formula (1) or Formula (2) is not more than 500 nm.
22. (New) The organic electroluminescent element of claim 17 wherein a wavelength giving a fluorescence maximum of the pyrrole derivative represented by Formula (1) or Formula (2) is not more than 500 nm.